

Diagnosis

HUNGARY

VALLO, Jozsef, Dr, physician-major; [affiliation not given].

"Diagnostic Difficulties in Iron-Deficiency Diseases"

Budapest, Honvadorvos, Vol XVIII, No 3, Jul-Sep 66, pages 205-208.

Abstract: [Author's Hungarian summary] On the basis of clinical experiences, some examples are cited to demonstrate the diagnostic problems of iron-deficiency diseases in the form of carditis, neurosis, abdominal complaints and neuro-endocrine disturbances. In conclusion, the faulty practices in iron therapy are evaluated. 1 Hungarian, 3 Western references.

1/1

VALLO K.

Obshchaya geografiya morya (General Geography of Seas) Translated by A. P. Potanin.
Edited by M. N. Zubov. Uchebnoye, Moscow-Leningrad, 1948, 492 pages

SO: U-3039, 11 Mar 1953

WEISMANN, Ludovit; VALLO, Vladimir

Migration of the stable forms of the fundatrigenic populations of the pea louse Aphis fabae (Scop.) in relation to weather conditions. In German. Biologia 15 no.10:738-746 '60. (EEAI 10:7)

1. Laboratorium für Pflanzenschutz der Tschechoslowakischen Akademie der Landwirtschaftlichen Wissenschaften, Ivanka pri Dunaji. (PEA LOUSE)

VALMARU, N.

VALMARU, N.

Workers needed. Vsem.prof.dvish. no.9:19 S'55. (MIRA 8:11)
(Rumania--Labor and laboring classes)

MARGUS, M.; VALMET, A.; VEEHMETS, K.; RALET, E., red.; LUMET, E.,
tékhn. red.

[Russian-Estonian silvicultural dictionary] Metsandulik vene-
eesti sonastik. Tallinn, Eesti Riiklik Kirjastus, 1962. 78 p.
(MIRA 15:10)

(Forests and forestry--Dictionaries)
(Russian language--Dictionaries--Estonian)

VAL'MET, R.A. [Valmet, R.]; VAASK, A.E.

Substituting rubber for bronze bushings in the supporting bearings
of frame drums. Kozh.-obav.prom. 7 no.3:31 Mr '65.

(MIRA 18:10)

VAL'MET, R.A. [Valmet, R.]; VAASK, A.E.

Substituting rubber for bronze bushings in the supporting bearings
of frame drums. Kozh.-obuv.prom. 7 no.3:31 Mr '65.

(MIRA 18:10)

USSR/Human and Animal Physiology - The Effect of Physical Factors. T
Ionizing Radiation.

Abs Jour : Ref Zhur Biol., No 3, 1959, 13379
Author : Valmukhanov, S.B.
Inst : ~~Valmukhanov, S.B.~~
Kazakh Medical Institute
Title : Data on Pathogenesis of Acute Radiation Sickness
Orig Pub : Tr. Kafedry rentgenol., i radiol. Kazakhsk. med.
in-t, 1958, vyp. I, 5-26
Abstract : No abstract.

Card 1/1

VAL'NEV, P.YE.

USSR/Physical Chemistry - Surface Phenomena. Adsorption.
Chromatography. Ion Exchange

B-13

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 3996

Author : Val'nev P.Ye.

Title : Photodesorption and Photodissociation of Molecules
Adsorbed by Metals

Orig Pub : Zh. fiz. khimii, 1956, 30, No 6, 1308-1315

Abstract : An instrument has been designed for the study by the manometric method of desorption of gases from metal layers due to action of light. Emission of gases from the

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858510010-2"

space by the action of light can take place as a result of ancillary processes (heating of the surface and bombardment of layer with photoelectrons) as well as due to a direct action of light on the adsorbed molecules. A study is made of the behavior of different gases and vapors adsorbed at Cd, Zn, Bi, Sb, Ni, on illumination. It is shown that in the case of the systems

VAL'NEV, P. Ye., assistant.

Use of the manometric method in the study of photoprocesses in
a layer of adsorbed gas. Nauch.biul. Len.un. no.23:10-13 '49.

(MLRA 10:4)

1. Fizicheskii institut Leningradskogo ordena Lenina Gosudarstven-
nogo universiteta.

(Manometer) (Light) (Adsorption)

VAL'NEV, P.Ye.

Photodesorption and photodissociation of molecules adsorbed by
metals. Zhur.fiz.khim. 30 no.6:1308-1315 Je '56. (MLBA 9:10)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova.
(Photochemistry) (Molecules) (Metals)

VAL'NEVA, Ye.S.; SHIRYAK, E.Ye.

Some results of the compound treatment of patients in the
recovery period of poliomyelitis. Kaz. med. zhur. 48-49 JI-Ag'63
(MIRA 17:2)

1. Kazanskiy detskiy sanatoriy etapnogo lecheniya poliomyelita
(glavnyy vrach - K.K.Botalova, nauchnyy rukovoditel' - prof.
L.I.Shulutko).

VALNICEK, B

Exercice 1

WANNICK, J.

"Chromospheric Eruptions And The Weather." Rev. Mod. Phys. (Dedicated
to the 25th Anniversary of the Institute of Theoretical Physics, University of
Chicago, 1955, pp. 1-10.)

SC: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March 1954, Unc.

VALNICK, b.

"Chromospheric Eruptions And The Weather." p. 97. (Bulleten
Astronomicheskikh Insitutov Chexhoslovakii. Bulletin Of The
Astronomical Instituss Of Czechoslovakia. Vol. 4, No. 4, July
1953, Praha.)

Vol. 3, No. 3.

SO: Monthly List of East European Accessions,/Library of Congress, March 1954, Uncl.

VALNICEK, ~~B~~

"Chromospheric Eruptions and the Weather." p. 179. (Biulleten Astronomicheskikh Institutov Chekhoslovakii. Bulletin of the Astronomical Institutes of Czechoslovakia. Vol. 4, no. 6, Dec. 1953. Praha).

SO: Monthly List of ^{East European} ~~Russian~~ Accessions, Vol. 3, No. 6, Library of Congress, June 195⁴~~3~~, Uncl.

VALNICEK, B.

Methods for observing the solar corona except at the time of eclipse. p. 1.
(CASOPIS CESKOSLOVENSKYCH USTAVU ASTRONOMICKYCH, Vol. 7, No. 1, 1957, Praha,
Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

VALNICEK, B.

"Some changes in the design of a Czechoslovak recording microdensitometer."

JEMNA MECHANIKA A OPTIKA. Praha, Czechoslovakia, Vol. 4, May 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, September 1959.
Unclas.

Valnicek, b., and others.

The flare spectrograph at Ondrejov. in English. p. 149.

BIULLETEN ASTRONOMICHESKIKH INSTITUTOV CHEKHOSLOVAKII. Bulletin of the astronomical institutes of Czechoslovakia., Praha, Czechoslovakia, Vol. 10, no. 5, Sept. 1959.

Monthly List of East European Accessions, (EEAI) LC, Vol. 8, no. 10, 1959. -Oct.
Uncl.

FRANK I BOOK EXPLOITATION

CZECH/5216

Budil, Ivo, ed.

Do blízkého i vzdáleného vesmíru (Into the Near and Distant Universe)
Prague, Orbis, 1960. 10,000 copies printed.

Authors: Milan Alaba, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Ondřej Brychta, Engineer, Jan Bukovský, Professor, D.C.Sc., Václav Rumba, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Zdeněk Čepelák, Candidate of Physics and Mathematics, Josef Dvořák, Doctor of Medicine, Vladimír Guth, Doctor, Doctor of Natural Sciences, Corresponding Member of the Slovak Academy of Sciences, Doctor of Physics and Mathematics, Jozip Kleczek, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Milošlav Kopecký, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Imbros Ferenc, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Kirsilav Flaves, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Jaroslav Ruprecht, Candidate of Physics and Mathematics, Josef Sadil, Ladislav Schnal, Candidate of Physics

Card-1/61-

and Mathematics. Zdeněk Švestka, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Boris Šulc, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Vladimír Vojtek, Doctor of Natural Sciences, Candidate of Physics and Mathematics. Resp. Ed.: Josef Sadil.

PURPOSE: This book is intended for the general reader interested in astronomy, celestial mechanics, and astrophysics.

COVERAGE: The book presents in popular language and in summary form the most important achievements of science to date in the field of astronomy, celestial mechanics, and astrophysics, and notes the importance of continued progress in these disciplines for space travel to the moon and in our solar system, and ultimately to the nearest stars and galaxies. In the section headed "About the Authors" the degrees and titles, affiliations and scientific contributions of each author are given. The text is accompanied by many diagrams, graphs, and tabular data. There are 37 photographs of various celestial bodies. No personalities

Card-2/61-

are mentioned. There are 29 references, all Czech (several translations).

TABLE OF CONTENTS:

THE NEAR UNIVERSE

- I. The Moon - The Nearest Cosmic Body
- Size and density of the moon
- Orbit of the moon around the earth
- Phases of the moon
- The ashen light of the moon
- Does the moon have any kind of an atmosphere?
- Temperatures on the surface of the moon
- What does the surface of the moon consist of?
- Beginnings of lunar mineralogy
- Is the moon radioactive?
- Surface of the moon through a telescope
- Origin of the seas and craters of the moon

Card-3/61-

7
8
9
10
11
12
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15
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17

RUZICKOVA, B.; TREMKO, J.; VALNICEK, B., dr.

Measurement of spectral sensitivity of photoelectric multipliers.
Jemna mech opt 5 no.2:59-61 F '60.

1. AU, Československá akademie věd, Ondřejov (for Ruzickova and Valnicek). 2. AU, Slovenská akadémia vied, Štrbské Pleso (for Tremko).

VALNICEK, B.

Solc's birefringent filter with a great number of plates. Jemna
mech opt 6 no.1:18-19 Ja '61.

1. Astronomický ústav, Československá akademie věd, observator
Ondřejov.

VALNICEK, B. fr.

Choice of polarizers for monochromatic birefringent filters. Jemna
mech opt 6 no.9:268-269 S '61.

1. Astronomický ústav, Československá akademie věd, Ondřejov.

8/269/63/000/001/020/032
A001/A101

AUTHOR: Valniček, B.

TITLE: Motion effects in chromospheric flares

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 1, 1963, 62,
abstract 1.51.416 ("Byul astron. in-tov Chekhoslovakii", 1961,
v. 12, no. 6, 237 - 244, English; Russian summary)

TEXT: Flares subjected to variations reveal three ranges of velocities of changes: ~ 10 km/sec, $\sim 100 - 150$ km/sec and $\sim 1,000$ km/sec. Flares occur also from which the "momentum" of flare propagates with a speed of $\sim 1,000 - 2,000$ km/sec. The intensity maximum of the main centers coincides with the time interval during which the flare extends and new centers are formed. Intensity of these new centers is less than intensity of the main centers. It can be supposed that in these cases there are fluxes of slow particles emitted from the seat of the initial flare and exciting emission in more distant regions or activating additional formations. Flares with a characteristic division into two parts were discovered in regions of lower activity, and one part remains at its spot while the other recedes with

Card 1/2

Motion effects in chromospheric flares

S/269/63/000/001/020/032
A001/A101

a velocity of a few km/sec. In this latter part occur "knots" moving at velocities exceeding 100 km/sec. The maximum of their velocity coincides with the intensity maximum. It is concluded that a flare develops in a plane where there is no strong magnetic field preventing the flare development. However, where a magnetic field is sufficient for creating conditions of flare origination, it is still insufficient for confining the flare within a closed region. The flare of July 27, 1959, observed in a very active region, was analyzed; it had a characteristic double structure but, in distinction from other flares of this type, was asymmetrical and without side motions; the analysis leads to a hypothesis that asymmetry is related to configuration of the entire active region and to the location of the flare in the magnetic field of the group. This conclusion is also confirmed by the course of changes in the line width during the flare of August 31, 1956, when it was noticed that asymmetry is observed only after termination of large changes of motion. A comparison with the typical case of asymmetrical flare located within a large group with considerable magnetic fields, which occurred on April 1, 1960, shows that the hypothesis on the nature of asymmetry origin is fully substantiated. There are 13 references.

[Abstracter's note: Complete translation]
Card 2/2

From author's summary

Z/048/62/000/005/003/003
D291/D302

AUTHOR: Valníček, Boris, Doctor of Natural Sciences, Candidate
of Sciences

TITLE: Solar research in Ondřejov

PERIODICAL: Věda a, technika mládeži, no. 5, 1962, 160-163

TEXT: The article describes briefly solar research conducted at the
Astronomický ústav ČSAV (Astronomical Institute of the Czechoslovak AS)
in Ondřejov near Prague, and lists instruments used for this purpose.
A very general description is given of the sun and solar activities
which are commonly observed such as chromospheric eruptions, protuberan-
ces etc., as well as a description of instruments employed in solar re-
search such as telescopes and spectrographs. The Ondřejov Observatory
is equipped with a radiotelescope and the latest type solar spectrograph.
With the aid of this instrument one can simultaneously obtain an image
in seven spectral ranges. Due to the high degree of automation, only ex-
posure times and intervals between the images have to be set. There are

Card 1/2

Solar research ...

Z/048/62/000/005/003/003
D291/D302

12 figures.

ASSOCIATION: Observator Ondřejov (Ondřejov Observatory)

Card 2/2

VALNICEK, B.

Escape of matter from chromosphere and active regions. Biul
str Cz 15 no.6:207-210 '64.

1. Astronomical Institute of the Czechoslovak Academy of Sciences,
Ondrejov.

400
L 41519-65 ARG/230-2/ENG(j)/ENT(d)/FRD/FSS-2/ENG(r)/ENT(l)/FBO/EMP(c)/ENT(e)/
ENT(m)/FS(v)-3/EPF(c)/EEC(k)-2/ENG(a)-2/EMP(i)/EMP(f)/ENG(v)/EMP(c)/EMP(v)/ENT(l)/
EPR/EMP(j)/T-2/ENG(a)-2/EMP(h)/EPA(bb)-2/EEC(c)-2/EEB-2/ENG(c)/FCS(k)/EMP(b)/
AMU-5110 P1-4/Px-4/Pz-4/Pn-4/ BOCK EXPLOITATION P1-4/Fh-4/Pac-2/Pa-4/Pf-4/163
Po-4/Pe-5/Pq-4/Pac-4/Fr-4 IJP(c) AST/TT/SH/DD/EM/GH/SC/28 141
Barvir, Miroslav, (Engineer); Benes, Konrad, (Professor, Doctor); Bouska, Jiri, (Doctor);
Bulil, Ivo, (Graduate in Philosophy); Cepicka, Zdenek, (Candidate of Physical and Mathematical Sciences);
Codr, Milan, (Doctor); Dolzal, Vladimir, (Doctor); Dvorak, Antonin, (Candidate of Medical Sciences);
Dvorak, Josef, (Doctor); Guth, Vladimir, (Candidate of Medical Sciences, Docent, Doctor); Horak, Zdenek,
(Doctor of Physical and Mathematical Sciences, Corresponding Member of the Czechoslovak Academy of Sciences, Professor, Doctor);
Hospodar, Jan, (Doctor of Physical and Mathematical Sciences, Doctor); Kleczek, Josip, (Doctor); Klest, Emil,
(Candidate of Physical and Mathematical Sciences); Kolodovsky, Milan; Koml, Vladimir (Doctor); Kopecky, Miloslav, (Candidate of Legal Sciences); Krivsky, Ladislav,
(Candidate of Physical and Mathematical Sciences); Kriz, Zdenek, (Candidate of Physical and Mathematical Sciences); Ledvina, Milan, (Engineer); Halek, Vladimir, (Doctor);
Moravek, Milan, (Candidate of Medical Sciences); Mrazek, Jaroslav, (Candidate of Medical Sciences, Engineer); Mrazek, Jiri, (Candidate of Technical Sciences);
Neuzil, Ludek, (Doctor); Novotny, Zdenek, (Candidate of Physical and Mathematical Sciences); Novotny, Zdenek, (Doctor); Pernegr, Jaroslav, (Doctor);
Candidate of Physical and Mathematical Sciences; Pesek, Rudolf, Professor, Doctor, Engineer); Piprl, Miloslav, (Doctor of Technical Sciences, Corresponding member, of the Czechoslovak Academy of Sciences); Plavec, Miroslav, (Doctor); Pokorny, Zdenek, (Candidate of Physical and Mathematical Sciences, Docent, Doctor);

Card 1/0
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14

Rusl, Vladimir, (Candidate of Medical Sciences, Doctor); Sadil, Josef, (Doctor of Physiological Sciences); Schnal, Ladislav; Stverak, Jiri, (Doctor); Svestka, Zdenek, (Doctor); Tuma, Jaroslav, (Candidate of Physical and Mathematical Sciences, Doctor); Tyrl, Vclav, (Docent, Engineer); Ulehla, Ivan, (Candidate of Technical Sciences, Professor, Doctor); Valnicck, Eoris, (Candidate of Physical and Mathematical Sciences, Doctor); Vanysek, Vladimir, (Candidate of Physical and Mathematical Sciences, Docent, Doctor); Vlasak, Marian, (Candidate of Physical and Mathematical Sciences; Doctor); Voda, Miloslav, (Engineer)

Principles of astronautics (Zaklady kosmonautiky) Prague, Orbis, 1964. 445 p. illus., biblio. 5000 copies printed.

TOPIC TAGS: cosmonautics, rocket, satellite, space flight², missile ¹³

PURPOSE AND COVERAGE: This publication is a popular scientific reference book for people working in cosmonautics. The book presents a survey of cosmonautics and space flight up to 1 June 1963.

TABLE OF CONTENTS:

Page 2/8

"APPROVED FOR RELEASE: 08/31/2001

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(Source: Condition of reference)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858510010-2"

L 46815-66

ACC NR: AT6020499

SOURCE CODE: CZ/2514/65/000/051/0062/0068

AUTHOR: Valnicek, Boris

ORG: Astronomical Institute of the Czechoslovak Academy of Sciences, Observatory
Ondrejov

TITLE: Czechoslovak monochromatic filters for chromosphere observations

SOURCE: Ceskoslovenska akademie ved. Astronomicky ustav. Publikace, no. 51,
1965. 3rd Consultation on Solar Physics and Hydromagnetics, Tatranska Lomnica,
13-16 October 1964, 62-68

TOPIC TAGS: monochromatic filter, solar disk, coronagraph, chromosphere,
optic glass, birefringent filter, optic filter, quartz, spar, /Lyot-Ohman birefringent
filter, Solc-type birefringent filter

ABSTRACT: The author discusses the construction of three birefringent filters.
Filter 1, a Lyot-Ohman-type filter was completed in 1961 and serves for current
observations of the chromosphere over the entire solar disk. Its parameters do not

Card 1/2

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ACC NR: AT6020499

2

differ essentially from those of the filters produced by the Societe Optique et Precision Lavallois in France. Filter 2, a new and more economical version of the Lyot-Ohman filter, was made for the coronagraph on Mt. Lomnicki Stit, where a birefringent filter was needed for observation of prominences. Filter 3, a Solc-type filter, was made for the Geophysical Institute to carry out chromospheric observations. The main advantage of this instrument is that it has few polarization elements. The author wishes to thank especially J. Kottler and the other members of the glass-grinding workshop of the Institute of Mineralogy for the careful execution of the extremely delicate cuts ground for the birefringent filter. In the discussion following the article, the author gives additional details on the structure of filter 1. He expresses his doubts concerning the practical possibility of reducing the temperature sensitivity of Lyot-Ohman filters by splitting each element into two parts, each made of a different material, spar and quartz for instance. He also gives approximative figures on the cost of filters 1 and 2, which at present is prohibitively high. Information on the subject may be obtained by writing to the institute. Orig. art. has: 6 figures. [GC]

SUB CODE: 03,08,17/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 001/

Card 2/2 LC

L 31485-66 FCC (W)

ACC NR: AP6023109

SOURCE CODE: CZ/0085/65/000/006/0176/0176

AUTHOR: Valnicek, Boris

ORG: Astronomical Institute, Prague (Astronom. Ustav CSAV)

22

TITLE: Eighty year period of sun activity and winter temperatures in Prague

B

SOURCE: Meteorologické zprávy, no. 6, 1965, 176

TOPIC TAGS: sun, atmospheric temperature, long range weather forecasting, weather station, climatic condition

ABSTRACT: The Prague meteorological station started weather recordings in 1752, and data since 1775 are available. The influence of sun activity upon the warm winters in 1820 and 1910 is discussed. The 11 year period of sun activity does not seem to influence the weather; however the long-term rhythm of the activity of the sun does influence the weather. The 80-100 year cycle of sun activity influences the curve of winter temperatures in Prague. It appears that at the present time there is a period of cold winters, and that this should last for another 20-30 years. At the end of this century, or the beginning of the next the winters will be mild. There is some indication that the weather is a function of a 400 year period. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 04 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 002

Card 1/1 mc

UDC: 551.583 2 : 551.521 11 : 551.524

VALNICEK, J.

CZECHOSLOVAKIA/Cultivated Plants. Medicinal Plants. Essential M
Oil Plants. Poisonous Plants.

Abs Jour: Ref Zhur-Biol., No 17, 1953, 77940.

Author : Valnicek Jan

Inst : _____

Title : Cultivation and Grafting of Cactus Seedlings.

Orig Pub: Ziva, 1957, 5, No 3, 98-99.

Abstract: No abstract.

Card : 1/1

170

CZECHOSLOVAKIA / Cultivated Plants. Ornamental Plants. M-10

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73264.

Author : Valnicek, Jan.

Inst : Not given.

Title : Wintering of Cacti and Spring Activities.

Orig Pub: Ziva, 1957, 5, No 5, 181-182.

Abstract: It is recommended to set cacti outside as long as night frosts are not a threat. From the middle of September, water dosage should be reduced and, in October, watering should be stopped. In this way, growth of the cactus ceases, the tissue ripens, is strengthened and hardened to the cold air. As a result, normal wintering of the cacti can be assured. In the article, the so-called method of "dry wintering" of cacti is also described. -- Ya. M. Ginevskiy.

Card 1/1

ANDRYSEK, O.; ANDRYSKOVA, J.; BENDL, J.; BLEKTA, M.; HRADCOVA, L.; CHYTIL, M.;
ORT, M.; RASKA, B.; VAINICEK, J.

Isotope examination methods of the uropoietic system in pediatrics
and obstetrics. Acta univ. Carol. [med] (Praha): Suppl. 18: 41-44
'64.

1. Biofyzikalni ustav fakulty vseobecneho lekarstvi University
Karlovy v Praze (prednosta: doc. dr. Z. Dienstbier); II. gyneko-
logicko-porodnicka klinika fakulty vseobecneho lekarstvi Univer-
sity Karlovy v Praze (prednosta: prof. dr. J. Lukas); III. interni
klinika fakulty vseobecneho lekarstvi University Karlovy v Praze
(prednosta: prof. dr. F. Herles); IV. detska klinika fakulty
vseobecneho lekarstvi University Karlovy v Praze (prednosta:
prof. dr. F. Herles); V. detska klinika fakulty vseobecneho
lekarstvi University Karlovy v Praze (prednosta: prof. dr.
F. Blazek) a I. detska klinika fakulty pediatricke University
Karlovy v Praze (prednosta: prof. dr. J. Svejcar).

HLAVATY, V.; BLEKTA, M.; CHYTIL, M.; BENDL, J.; VALNICEK, J.; BENDOVA, L.

Changes in the blood volume during pregnancy and in late gestoses investigated with the aid of I-131 HSA and Cr51 labeled erythrocytes. Sborn. lek. 67 no.8/9:240-247 Ag '65.

I. Biofyzikalni ustav (prednosta doc. dr. Z. Dienstbier, DrSc),
II. gynekologicko-prord. klinika (prednosta prof. dr. J. Lukas, DrSc.) a II. interni klinika (prednosta prof. dr. F. Herles, DrSc.) fakulty vseobecneho lekarstvi University Karlovy v Praze.

HLAVATY, V.; BLEKTA, M.; TRNKOVA, M.; CHYTIL, M.; BENDL, J.; VALNICEK, J.;
BENDOVA, L.

Some new information on changes in the volume of circulatory
plasma and blood proteins during physiological pregnancy and
late gestation. Cas. lek. Cesk. 104 no.51:1405 17 D '65.

1. Biofyzikalni ustav fakulty vseobecneho lekarstvi Karlovy
University v Praze (prednosta prof. dr. Z. Dienstbier, DrSc.),
II. gynekologicko-porodnicka klinika fakulty vseobecneho
lekarstvi Karlovy University v Praze (prednosta prof. dr.
J. Lukas, DrSc.), Statni ustav pro kontrolu leciv v Praze a
II. interni klinika fakulty vseobecneho lekarstvi Karlovy
University v Praze (prednosta prof. dr. F. Herlas, DrSc.).

BLEKTA,M.; BAKOS,K.; HLAVATY,V.; ANDRYSKA, O.; TRNKOVA,M.; BENDL,J.;
VALNICEK,S.; CHYTIL,M.; BENDOVA,L.

Isotope examination methods in obstetrics. Isotope nephro-
graphy, measurement of the blood volume with I-131, serum
albumin level test with the use of erythrocytes labeled
with Cr-51. Cesk. gynek. 30 no.1:122-127 Mr'65.

1. II. gyn.-por. klinika; Biofyzikalni ustav; II.interni
klinika fakulty vseobecneho lekarstvi Karlovy University
v Praze; Statni ustav pro kontrolu leziv v Praze.

VAKHTENGEYM, Yu. [Vachtenheim, J.]; ~~VALNICHEN~~ S. [Valnicek, S.];
SVOITKA, M. [Svojtka, M.]; Prinsipala uchastiye: KOURILOVA, Z.

Specificity of LE cells. Vop.revm. 1 no.3:21-25 J1-S '61.
(MIRA 16:4)

1. Iz Oblastnogo revmatologicheskogo tsentra (zav.
Yu.Vakhtengeym), terapevticheskogo otdeleniya (zav. V.Shmid)
i Tsentral'noy laboratorii (zav. M.Svoitka), oblastnoy
bol'nitsy (dir. L.Drlik) Iglavy, Chekhoslovatskaya Sotsialisti-
cheskaya Respublika.

(PATHOLOGY, CELLULAR) (ARTHRITIS, RHEUMATOID)
(LUPUS ERYTHEMATOSUS)

BLETKA, M., Praha 2, Apolinarska 18; BENDL, J.; VALNICEK, S.; CHYTIL, M.

Hypertension in pregnancy. Cesk. gynek. 30 no.9:648-653 N '65.

I. II. gyn.-por. klin. (prednosta prof. dr. J. Lukas, DrSc.) a
II. inter. klin. (prednosta prof. dr. F. Herles, DrSc.) fakulty
vseobecneho lekarstvi Karlovy University v Praze.

BAKOS, K.; ANDRYSEK, O.; ANDRYSKOVA, J.; BLEKTA, M.; BENDL, J.;
VALNICEK, S.; CHYTIL, M.

Isotope nephrography in pregnancy and in late toxemia.
Cas. lek. cesk. 104 no.27/28:745-748 9 J1 '65.

I. Biofyzikalni ustav fakulty vseobecneho lekarstvi Karlovy
University v Praze (prednosta doc. dr. Z. Dienstbier, DrSc.),
II. porod.-gynekol. klinika fakulty vseobecneho lekarstvi
Karlovy University v Praze (prednosta prof. dr. J. Lukas, DrSc.)
a II. interni klinika fakulty vseobecneho lekarstvi Karlovy
University v Praze (prednosta prof. dr. F. Herles, DrSc.).

CZECHOSLOVAKIA

HLAVATY, V., BENDOVA, L., BLEKTA, M., BENDL, J., VALNICEK, S.,
TRNKOVA, M., CHYTIL, M.; Biophysical Institute, Faculty of General
Medicine, Charles University, 2nd. Gynecological Clinic, Faculty
of General Medicine, Charles University; State Institute for Drug
Control; 2nd. Internal Clinic, Faculty of Gen. Medicine, Charles
University (Biofyzikalni Ustav Fak. Vseob. Lek. KU; II. Porodnicko
Gynekologicka Klinika Fak. Vseob. Lek. KU; Statni Ustav pro
Kontrolu Leciv; II. Interni Klinika Fak. Vseob. Lek KU) Prague.

"Changes in the Volume of Circulating Blood During Physiological
Pregnancy and in Late Gestosis."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 93-94

Abstract: The amount of circulating blood and plasma starts
increasing in the 9th. week of pregnancy and reaches a maximum
in the 2nd. trimester; at the end of pregnancy the volume of
plasma decreases. In late gestosis the volume of circulating
blood and plasma begin to decrease as early as the 2nd trimester.
No references. Submitted at "16 Days of Physiology" at Kosice,
27 Sep 65.

- 1 -

CZECHOSLOVAKIA

HLAVATY, V., ~~BENDOVA, I.~~ BLEKTA, M., BENDL, J., VALNICEK, S.,
TRNKOVA, M., CHYTL, M.; Biophysical Institute, Faculty of General
Medicine, Charles University, 2nd. Gynecological Clinic, Faculty
of General Medicine, Charles University; State Institute for Drug
Control: 2nd. Internal Clinic, Faculty of Gen. Medicine, Charles
University (Biofyzikalni Ustav Fak. Vseob. Lek. KU; II. Porodnicko-
Gynekologicka Klinika Fak. Vseob. Lek KU; Statni Ustav pro
Kontrolu Leciv; II. Interni Klinika Fak. Vseob. Lek KU), Prague.

"Changes in the Total Amounts of Serum Proteins and Their Fractions
During Physiological Pregnancy and Late Gestation."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 94

Abstract: During normal pregnancy the concentration of blood
proteins and albumin decreases, concentration of globulin and the
total amount of serum protein increase; the amount of albumin
reaches a peak in the 2nd trimester and reverts to pre-pregnancy
levels. In late gestation the decrease in proteins and albumins
is greater; globulins do not increase. No references. Submitted
at "16 Days of Physiology" at Kosice, 27 Sep 65.

1/1

- 141 -

VALNICEK, Vladimir

Angioleiomyoma of the small intestine as a cause of severe melena.
Rozhl. chir. 38 no.12:848-880 D '59

1. Chirurgické oddelení nemocnice v Mariánských Lázních, přednosta
MUDr. J. Kropáč,

(MELENA, etiol.)

(LEIOMYOMA, compl.)

(INTESTINE SMALL neopl.)

VALNICEK, Vladimir

A simple laryngoscopic spoon. Rozhl. chir. 41 no.8:568-569 Ag '62.

1. Chirurgické oddělení nemocnice s poliklinikou v Mar. Lázních,
prednosta MUDr. J. Kropac.

(LARYNGOSCOPY)

DUBA, J.; VALHUCKOVA, T.

Electroencephalographic findings in psychiatry: delinquents. Activ.
narv. sup. (Praha) no.3:225-249 '84.

1. Psychiatrická léčebna v Praze 8.

DUBA, J.; VALNICKOVA, T.

Simultaneous EEG, GSR and heart rate recording in psychiatric patients. *Activ. nerv. sup. (Praha)* 7 no.2:188 '65

1. Psychiatric Hospital, Praha 8, Bohnice.

L 12941-66

ACC NR: AP6005677

SOURCE CODE: CZ/0079/65/007/002/0188/0188

AUTHOR: Duba, J.; Valnickova, T.

ORG: Psychiatric Hospital, Prague

TITLE: Simultaneous EEG, GSR and heart rate recording in psychiatric patients
[This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to 23 October 1964.]

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 188

TOPIC TAGS: psychiatry, EEG, psychoneurotic disorder

ABSTRACT: Suitability of polygraphic recording for differential diagnosis in clinical psychiatry was investigated in 408 patients. Intensity of GSR to second signal stimuli was smaller than to first signal stimuli. Exceptions were patients with epilepsy and schizophrenia. GSR response to second signal stimuli was longer only in schizophrenics. GSR potentials, time characteristics, and pulse rate varied in schizophrenics, psychopaths and in neurotics. Where GSR after first and second signal stimuli did not change, serious EEG abnormalities and clinical findings of an organic type were present. [JPRS]

SUB CODE: 06, 05 / SUBM DATE: none

Card 1/1 HW

Val'nitskiy, M.K.
VAL'NITSKIY, M.K.

New variable. Astron.tsir. no.161:16 J1'55. (MIRA 8:12)

1. L'vovskaya Astronomicheskaya observatoriya
(Stars, Variable)

VAL'NITSKIY, M.K.

An uninvestigated variable star. Astron.tsir. no.186:17-18 H '57.
(MIRA 11:4)

1. L'vovskaya astronomicheskaya observatoriya.
(Stars, Variable)

VALNOHA, L.

Permanent Exhibit of Soviet Machinery in motion pictures. p. (2) of cover.

MECHANISACE ZEMEDELSTVI. (Ministerstvo zemedelstvi) Praha

Vol. 5, no. 16, Aug. 1955

East European Accessions List

Vol. 5 No. 1

Jan. 1956

VALNOHA, L.

Cooperation of research workers with the machine-tractor station
centers. p.323

MECHANISACE ZEMEDELSTVI. (Ministerstvo zemedelstvi) Praha

Vol. 5, no. 17, Sept. 1955

East European Accessions List

Vol. 5 No. 1

Jan. 1956

VALNOHA, L.

"One way in the machine-tractor station, another way in the Ingstav Factory, or
Adventures of a suggestion for improvement."

MECHANISACE ZEMEDELSTVI, Praha, Czechoslovakia, Vol. 5, No. 21, November 1955.

Monthly List of East European Accessions (HEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

VALNOHA, L.

Feed mixer and sow tender. p. 212.
MECHANISACE ZEMEDELSTVI. (Ministerstvo zemedelstvi)
Praha.
Vol. 6, no.11, June 1956.

SOURCE: EEAL LC Vol. 5, No. 10, Oct. 1956

VALNCHA, L.

VALNCHA, L. New types of agricultural machines at the 1956 Exhibit of Technical
Novelties. p. (2) of cover.

Vol. 6, No. 16, Aug. 1956.

MECHANISACE ZEMELSTVI.

AGRICULTURE

Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 3, March 1957

VALNODA, L.

VALNODA, L. Electric testing apparatus for motor vehicles and voltage in networks carrying up to 500V. p. (4) of cover.

Vol. no. 1, Jan. 1957
MACHANISACE ZEMEDELSTVI
AGRICULTURE
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

VALHOHA, L.

VALHOHA, L. Is care for your tires equal to their value? p. 52.

Vol. 7, no. 3, Feb. 1957
MACHANISACE ZEMEDELSVI
AGRICULTURE
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

VALNOHA, L.

What is new in the mechanization of animal industry in the Kojetin area.
p. 233. (Mechanisace Zemedelstvi, Vol. 7, No. 10, May 1957, Praha,
Czechoslovakia)

SO: Monthly List of East European Accessions (EEAJ) LC, Vol. 6, No. 8, Aug 1957. Uncl.

VALO, Anton

Products of the Zavody 29. augusta, National Enterprise, Part-
izanske. Tech praca 16 no. 1:79-80 Ja '64.

1. Zavody 29. augusta, Partizanske.

VALOCH, K.; MUSIL, R.

Loess in the Vyskov depression. p. 263.
(PRACE, Vol. 29, No. 6, 1956, Brno, Czechoslovakia)

SO: Monthly List of East European Accessions (LEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

VALOCH, K.

Paleolithic settlements of the period of leaf-shaped tops of implements in the hills bordering the Bobrava River valley. p. 5 (Biulleten astronomicheskikh institutov chekhoslovakii. Bulletin of the astronomical Institutes of Czechoslovakia, Praha. Vol. 41, 1956.)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

VALOCZI, L.

"The first railroads in Albania." p. 496. (Termesztet es Technika, Vol. 112, no. 8,
Aug 53, Budapest)

SO: Monthly List of East European Accessions, Vol 3 No 2 Library of Congress Feb 54 Uncl

VALOCZI, L.

"Development of Air Traffic in the Soviet Union", P. 131, (KOZLEKEDESTUDOMANYI
SZEMLE, Vol. 4, No. 4, Apr. 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12,
Dec. 1954, Uncl.

VALOCZI, L.

Geographical aspects of the problem of atomic energy. p. 488. (Banaszati Lapok, Budapest, Vol 9, no. 9, Sept 1954)

SO: Monthly list of East European Accessions (EEAL), LC Vol 4, no. 6, June 1955 Uncl

VALOCZI, Laszlo

VALOCZI, Laszlio - Godollo eghajlata. Budapest, Mezogazdasagi Kiado, 1955.
14 p. (Budapest, Magyar Agartudomanyi Egyetem. Agarkozgazdasagi Kar.
Agrarkozgazdasagi Kar kiadvanyai, 1. kot., 3 sz.) (Climate of Godollo. German
and Russian summaries. map, bibl.) Hungary

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4 - April 1957

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858510010-2

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858510010-2"

VALOCZY, L.

25th anniversary of the Turksib Railroad and its economic importance,
p. 278, KOZLEKED ESTUDOMANYI SZEMLE, (Kozlekedesi Kiado) Budapest,
Vol. 5, No. 7/8, July/Aug. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 4, No. 12, December 1955

VALOCZI, I.

Use of aeronautics in agriculture and forestry in the Soviet Union and people's democratic countries. p. 9. REFULES. Budapest. Vol. 8, No. 10, May 1955

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 6, June 1956

VALCCZI, L.

Czechoslovakia's railroad system. p.765.
KOZLEKEDESI KOZLONY, Budapest.
Hungary, Kozponti Szallitasi Tanacs.
Vol 11, no. 41, Oct. 1955.

SOURCES: EEAL - LC OCT. 1956 Vol 5 No 10

Valocz1, L.

Valocz1, L. Problems of war material for atomic energy, p. 10. Vol. 16,
no. 2/4 1955 Independent Europe, 10-1111111111.

NOTE: Possibly 1954 of East European Association, (1954), IC, Vol. 5,
No. 3, March, 1956

VALOCZI, L.

Turksib Railroad is twenty-five years old. p. 307. TERMESZET ES TARSADALOM.
(Tarsadalom- es Termeszettudomani Ismeretterjeszto Vallalat) Budapest. Vol.
114, no. 5, May 1955. From Lenin's legacy; Lenin's guidance for workers in
cultural propaganda work. p. 257.

SOURCE: East European Accessions List (EEAL), Library of Congress
Vol. 5, no. 6, June 1956

VALOCZI, L.

VALOCZI, L. Developments in Poland's agriculture. (To be contd.) P. 423.

Vol. 8, No. 9, Sept. 1956

AGRICULTURE

AGRICULTURE

Budapest, Hungary

So: East European Accession, Vol. 6, No. 2, Feb. 1957

VALOCZI, L.

Foldrajz 1. kötet: Általános földrajz (Geográfia. V. 1. 1. Általános Geográfia)
a review

P. 124 (FOLDRAJZI ÁFTÉKINTÉS) Vol. 6, No. 1. 1957
Budapest, Hungary

SC: Monthly Index of East European Accessions (MEA) IC. Vol. 7, No. 3
March 1958

VALCCZI, L.

Magyarország - Itolpmuv (Hungary: An Itinerary)

P. 126 (FOLDRAJZI ERTESEITO) Vol. 6, No. 1, 1957
Budapest, Hungary

SC: Monthly Index of East European Accessions (SEMI) LC. Vol. 7, No. 3,
March 1958

VALOCZI, L.

Magyarországi autoutak térképe (Map of Hungarian Highways); a book review.

P. 253, (Foldrajzi Ertensito) Vol. 6, no. 2, 1957, Budapest, Hungary

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

VALOCZY, Elek

Labor protection activity of the Ozd Metallurgical Works and the Trade union Committee. Munka 11 no.5:9-10 My '61.

1. Ozdi Kohaszati Uzemek szb. titkara.

(Hungary—Metallurgical plants—Safety measures)
(Hungary—Trade unions)

VALOCZY, I.

"The spin."

p. 13 (Repules) No. 9, Dec. 1957
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

VALOCZY, I.

The turn and the moment for the opposite turn. p. 12. REPUBL. Budapest.
Vol. 9, No. 1, Jan. 1956

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 6, June 1956

L 39107-66 1-1(1)/-1(1)/-1(1)/1 IJP(6) RM
 ACC NR: AP6030372 SOURCE CODE: UR/0428/66/000/001/0111/0115
 AUTHOR: Valodz'ka, L. V.; Kamyak, A. I.; Sabila, K. V.; Sewchanka, A. N.;
Slyaptsow, L. Ye.
 ORG: none
 TITLE: Luminescence and vibrational spectra of potassium-uranyl-chloride
 SOURCE: AN BSSR. Vestsi. Seryya fizika-matematychnykh navuk, no. 1, 1966, 111-115
 TOPIC TAGS: luminescence spectrum, vibration spectrum, IR spectrum, Raman scattering,
 uranium compound
 ABSTRACT: The infrared absorption spectrum of a $K_2UO_2Cl_4 \cdot 2H_2O$ monocrystal at room
 temperature was studied and compared with the luminescence spectrum at 77°K. The
 frequencies in the luminescence spectrum were analyzed, taking into account infrared
 absorption and Raman scattering of a saturated aqueous solution of potassium-uranyl-
 chloride. Four frequencies were determined from the latter which are attributed to
 different complexes existing in the solution. The vibrational frequencies of water
 containing coordinate bonds are discussed, and a structure is proposed for the complex.
 Orig. art. has: 2 figures and 1 table. [JPRS: 35,668]
 SUB CODE: 07, 20 / SUBM DATE: 16Oct65 / ORIG REF: 007 / OTH REF: 005

Card 1/1

2978 1045

VALODZIN, V.

Elizaveta Brmalaeva is the first. Rab. 1 sial. 34 no.1:21 Ja '58,
(Sprinting) (Sports for women) (MIRA 11:1)

S/081/61/000/021/008/094
B102/B138

AUTHORS: Valodz'ka, L. V., Umreyka, D. S.

TITLE: Influence of secondary processes on the luminescence of uranium glass

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 28, abstract 21B230 (Izv. AN BSSR. Ser. fiz.-tekhn. n., no. 1, 1961, 75 - 81)

TEXT: It has been found that the secondary luminescence of uranyl compounds can be determined experimentally at room temperature. The intensity of the secondary luminescence of uranium glass and of an aqueous solution of uranyl nitrate was studied in dependence on the position of the luminescent layer (from the depth of excitation). Experimental and theoretical results are compared. [Abstracter's note: Complete translation.] ✓

Card 1/1

S/124/63/000/002/042/052

D234/D308

The effects of ...

where α_1, α_2 are coefficients depending on temperature; $\alpha_3, \alpha_4, \alpha_5$,
 α_6 are coefficients independent of temperature; G_1 is the theoretical
value of the resistance at 0 K; R_0 is the resistance at 0 K.

VALOSEK, Cealav

Discovery of stalactite halite in the mines of Ostrava-Karvina
coal basin. Prir cas slezsky 22 no.4:511-512 '61.

INDYCHENKO, N.I.; ZYABLITSHEV, I.V.; TIMOSHENKO, N.M.; BATSENKO, M.P.;
VIZHLYAK, V.G.; CHALYUK, S.M.; VALOSHINA, G.G.

Popular textbook on electric centralization ("Electric centralization of switches and signals" by A.A. Kazakov. Reviewed by N.I. Indychenko and others). Avtom., telem. i svyaz' 2 no.7:48 JI '58.
(MIRA 11:6)

1. Rabotniki Kiyevskoy distantzii signalizatsii i svyazi Yugo-Zapadnoy dorogi.

(Railroads--Signaling--Block system)
(Kazakov, A.A.)

U A L 5214/1001, C. G.
INDYCHENKO, N.I.; ZYABLITSYEV, I.V.; TIMOSHENKO, N.M.; BATSENKO, N.P.;
VIZHLYAK, V.G.; CHALYUK, S.M.; VALOSHINA, G.G.

Popular textbook on electric centralization ("Electric centralization of switches and signals" by A.A. Kazakov. Reviewed by N.I. Indychenko and others). Avtom., telem. i svyaz' 2 no.7:48 J1 '58.
(MIRA 11:6)

1. Rabotniki Kiyevskoy distantzii signalizatsii i svyazi Yugo-Zapadnoy dorogi.

(Railroads--Signaling--Block system)
(Kazakov, A.A.)

VALOSHYN, I.F., kandydat technichnykh navuk.

Calculation concerning partial capacities of multiple-wire systems
with the help of indexes of a higher degree. Vestsi AN BSSR no.1:
122-131 Ja-F '54. (MLRA 8:1)
(Electric cables)

"APPROVED FOR RELEASE: 08/31/2001

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858510010-2"

VALOUCH, L. ; KOLAR, Z.

AGRICULTURE

PERIODICAL: ZEMEDELSKE STORJE, VOL. 3, no. 12, Dec. 1958

Valouch, L. ; Kolar, Z. Experiences with our machines for threshing chopped grain. p. 284.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 5,
May 1959, Unclass.

VALOUCH, MILOSLAV.

Petiminjtné tabulky logaritmické. Sest., cetnymi tabulkami matematickymi, fysikalnimi, astronomickymi a chemickymi doplnili Miloslav Valouch a Miloslav A. Valouch. (16. vyd.) Praha, Prirodovedecke vydavatelstvi, 1952 190 p. (Five-digit logarithmic tables; with numerous mathematical, physical, astronomical, and chemical tables. 16th ed. index, tables)

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 12
December 1956

VALOUCH, Miloslav.

The inauguration of the Czechoslovak Academy of Sciences [in Russian and English]. *Chekh.fiz.smr.* 3 no.1:19-28 Mr '53. (MLRA 7:6)
(Czechoslovak Academy of Sciences)

VALOUCH, M.

Professor Zdenek Matyas is dead; an obituary.

p. 5 (Meteorologické Zprávy) Vol 10, no 3 June 1957. Praha, Czechoslovakia.

SO: Monthly Index of East European Accessions (EEAI) LC, vol 7, no 1 Jan 1958

VALOUCH, MILOSKAV

Sedimimistne logaritmy cisel od 1 do 110,000 a goniometrickych funkei v sedesatinnem deleni. Sest. Miloslav Valouch a Miloslav A. Valouch. (3. vyd.) Praha, Nakl. Ceskoslovenske akademie ved, 1956. 487 p. (Seven-digit logarithms of numbers from 1 to 110,000 and of goniometric functions in sexagesimal division. 3d ed. chiefly tables)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no6, June 1957. Uncl.

VALOUCH, MILOSLAV

"Petimistne logaritmicke tabulky cisel a goniometrickych funkci s dalsimi matematickymi tabulkami a tabulky konstant fysikalnich, chemickych, astronomickych a jinych. [18.vyd.] Praha, Nakl.Ceskoslovenske akademie ved, 1958. [Five-digit logarithmic tables of numbers and goniometric functions with additional matematici tables and tables on physics, chemistry, astronomy, and other fields. 18th ed. index, chiefly tables]."

p.229 (Praha, Czechoslovakia)

Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 8, August 1956.

Boček
VALOUCH, M.

CZ/37-58-5-2/19

AUTHORS: Boček, M., Kratochvíl, P. and Valouch, M.
TITLE: Filament and Band Substructure in Single Crystals of Zinc Prepared by the Method of Ciochralski (vidnová a páková substruktura monokrystalů zinku připravených metodou Ciochralského)

PERIODICAL: Československý časopis pro fyziku, 1958, Nr. 5, pp 521-525 + 1 plate (Czech)

ABSTRACT: The substructure in single crystals of metals has been mainly studied in connection with the elucidation of the mechanism of growth. Very little is known about the influence of the substructure or π - π properties of the crystals. A crystal with filament-type substructure, namely, known as hexagonal, prismatic, or hexagonal, etc. (Ref. 2, 3), is parallel to each other in the direction of growth from the melt. Such substructures have mainly been studied in metals grown by a modified Bridgman method (Ref. 5). At low rates of growth, the filaments merge to form a band substructure. Blaha (Ref. 5) has observed filament substructure on single crystals of zinc and of cadmium grown by the method of Ciochralski.

Card 1/4

In the present work some studies on substructures in single crystals of zinc are reported. These have been prepared in order to determine the influence of the conditions of growth on the plastic properties of the crystals. Two kinds of material were used: a) 99.7% Zn with 0.16% Cd and 0.004% Cu; b) 99.5% Zn with 0.04% Cd, 0.008% Cu and 0.004% Fe and Pb. The crystals were grown by the Ciochralski method in an atmosphere of CO_2 (Ref. 5). The diameters of the crystals were about 1-2 mm. Samples about 100 mm long were grown at three different rates: 5, 10, and 20 mm/min. The crystals were cut in the direction of growth, namely, parallel to the filaments, and then etched. The crystals were etched in a 25% solution of HNO₃ with a current density of 0.75 amp/cm². The pure crystals were etched in a mixture of one part of 50% HNO₃ with one part of ethyl alcohol. An etch pattern showing filament substructure is shown in Fig. 1; band substructure is shown in Fig. 2. Some of the observations were made on the surfaces of the crystals without etching. The diameters of the filaments of the substructure were measured and are plotted in Fig. 3 as functions of the temperature gradient at the interface between the melt and the crystal for several rates of growth. The diameters decrease with increasing rate of growth and agree with the results of Rutter and Chalmers (Ref. 2), on crystals of tin grown by the Bridgman method. Some of the effect of orientation of the crystals was also observed. Substructures in crystals of lower purity usually showed mainly filament substructure. At the growth rate of 5 mm/min and a small temperature gradient ($G = 5^\circ C/cm$), a transition between cellular and band substructure was observed (Fig. 6). The band substructure was found in crystals of high purity, which even at the fastest growth rate and with temperature gradients up to $50^\circ C/cm$ showed only this type of substructure. The width of the bands again decreased with increasing temperature gradient and growth rate. The influence of the orientation of the crystals was here more pronounced. The transition between the two types of substructure was also dependent on the orientation of the crystal. A short explanation of the orientation of the substructures in terms of the theory developed by Rutter and Chalmers is given. There are 8 figures and 11 references, 9 of which are English, 1 German, 1 Soviet.

Card 2/4

ASSOCIATION: Fyzikální ústav a Katedra fyziky pevných látek nat. fys. fakulty KU, Praha (Department of Physics and Chair of Solid-State Physics of the Faculty of Mathematics and Physics, Charles University, Prague)

VALOUCH, M.

21
The cellular substructure of zinc monocrystals prepared by the Czochralski method. Michal Hecek, Petr Kratochvil, and Miloslav Valouch (Karlov Univ., Prague). *Czechoslov. J. Phys.* 8, 657-62 (1958) (in English).—The dependence of the cell size and appearance of cellular substructure on the growth rate and the temp. gradient was studied. The results agree with those obtained by the Bridgman method (Chalmers, *C.A.* 47, 5240a; 50, 11759b). The orientation of monocrystals det. the degree of elongation of cells. A hypothesis on the mechanism of production of elongated cells is proposed. The impurity diffusion during crystal growth is discussed. A. Kreinheller

6
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1-21-55

KR

5(4),24(2),18(6)

AUTHORS: Valoukh, M., Borovskiy, I. B.

SOV/20-123-3-30/54

TITLE: The Distribution of an Impurity in a Single Crystal of Metallic Zinc of Honeycomb Substructure (Raspredeleniye primesi v monokristalle metallichesкого tsinka s sotovoy substrukturoy)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 3, pp 490-491 (USSR)

ABSTRACT: The authors first discuss in short some previous papers on this subject. The present paper investigates the distribution of an impurity (copper) over the elements of the substructure of a zinc single crystal. This single crystal with an impurity content of 0.7% copper was bred according to the method of Chokral'skiy. The amount of the impurities of the other elements was less than 0.01%. The cylindrical single crystal was polished perpendicularly to its axis. The fibrous honeycomb structure was detected after chemical polishing. The distribution of copper over the substructure elements of the zinc single crystal was investigated by the X-ray-spectral method for the investigation of the chemical composition in the microvolumina of alloys by means of the apparatus RS&Sh-2. A figure shows the concentration curves for

Card 1/2